ABSTRACT OF THE DISCLOSURE

An exponent part extraction section extracts a bit series
from the exponent part of an inputted floating point data. A

5   mantissa part extraction section extracts the uppermost K bits
from the mantissa part of the floating point data. A first
conversion section inputs the output e from the exponent part
extraction section and outputs the value of a function $X(e)$
thereof. A second conversion section inputs the output f from

10 the mantissa part extraction section and outputs the value of a
function $Y(f)$ thereof. A multiplier section multiplies together
these values. By setting suitable tables in advance in the
first and the second conversion sections, the calculation of the
v^p for an item v of floating point data can be performed.

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